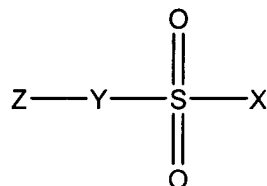


In the claims

1-33. (canceled)

34. (Currently amended) A coating comprising an effective amount of an anti-fouling compound of structure 1:



1

wherein

X represents -OH;

Y represents O;

Z represents an unsubstituted or substituted moiety selected from the group consisting of ~~branched alkyl, unbranched alkyl of 2-7 carbons, heteroalkyl, cycloalkyl, heterocycloalkyl,~~ aryl, heteroaryl, aralkyl, and heteroaralkyl, ~~and  $(\text{CH}_2)_m\text{-R}_{80}$ ;~~ wherein when Z is substituted, any substituent is selected from the group consisting of halo, azido, alkyl, aralkyl, alkynyl, cycloalkyl, alkoxyl, nitro, imino, amido, silyl, alkylthio, sulfonyl, sulfonamido, acyl, formyl, heterocyclyl, aryl, heteroaryl, and trifluoromethyl;

~~$\text{R}_{80}$  represents independently for each occurrence aryl, cycloalkyl, cycloalkenyl, heterocyclyl, or polycyclyl; and~~

~~—  $m$  is an integer in the range 0 to 8 inclusive or salt thereof,~~

wherein the coating releases the compound or a biologically active fragment thereof when in contact with a surface that is amenable to biofouling, wherein the coating is a vinyl, acrylic, resin, elastomeric, wax, polyester, acrylate, polyurethane, latex, fluoropolymer, or silicone coating.

35. (canceled)

36. (canceled)

37. (Currently amended) A coating of claim 34, wherein Z represents ~~an unsubstituted or substituted branched alkyl, unbranched alkyl of 2-7 carbons, aryl, or  $(CH_2)_m$~~   $R_{80}$ .

38. (Previously presented) A coating of claim 34, wherein Z represents an unsubstituted or substituted alkylphenyl, heteroalkylphenyl, arylphenyl, or heteroarylphenyl.

39. (Previously presented) A coating of claim 34 wherein Z represents methyl, 4-(2-methylpropyl)phenyl, 4-(1,1-dimethylethyl)phenyl, 4-(1,1-dimethylpropyl)phenyl, 4-pentylphenyl, 4-(1-methyl-1-phenylethyl)phenyl, or 4-(1-methylheptyl)phenyl.

40-114. (canceled)